SAFETY DATA SHEET



Issuing Date 17-Dec-2014	Revision Date 16-July-2015 Revision Number :1
1. IDENTIFICATION OF THE SUB	3STANCE/PREPARATION AND THE COMPANY/UNDERTAKING
GHS product identifier	
Product Name	Syn-Kool
Other means of identification	
Synonyms	None
Recommended use of the chemical	and restrictions on use
Recommended Use	General-purpose synthetic metalworking fluid
Uses advised against	No information available
Supplier's details	
Supplier Address	
ITW Pro Brands 616 East Industrial St DeWitt, IA 52742 TEL: 1-800-452-5823	

Emergency telephone number

Emergency Telephone Number

CHEMTREC: 1-800-424-9300 for US/ 703-527-3887 outside US

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Skin Irritation	Category 1 Subcategory 1B	
Serious Eye Damage/Eye Irritation	Category 2	
Specific Target Organ Toxicity (Repeated Exposure)	Category 2	

GHS Label elements, including precautionary statements

Emergency Overview				
Signal Word	Danger			
 Hazard Statements Causes severe skin burns and eye damage Causes serious eye irritation May cause damage to organs through prolonged or repeated exposure 				
Appearance: Blue	Physical State: Liquid	Odor: Mild		
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Precautionary Statements

Prevention

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wash face, hands and any exposed skin thoroughly after handling.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wear protective gloves/protective clothing/eye protection/face protection.

General Advice

- If exposed or concerned: Get medical attention/advice Eyes
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

Skin

- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation occurs: Get medical advice/attention.
- Take off contaminated clothing and wash before reuse.

Storage

• Store locked up.

Disposal

Dispose of contents/container to an approved waste disposal plant.

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

6% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION / INFORMATION ON INGREDIENTS				
Chemical Name	CAS-No	Weight %	Trade secret	
Triethanolamine	102-71-6	3-7	*	
Diisopropanolamine	110-97-4	1-5	*	
Ethanolamine	141-43-5	1-5	*	
Ethanol	64-17-5	1-5	*	

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Syn-Kool	Revision Date: 16-July-2015			
Skin Contact	Wash skin with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Remove and wash contaminated clothing before re-use.			
Inhalation	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.			
Ingestion	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell			
Most important symptoms/effec	ts, acute and delayed			
Most Important Symptoms/Effects	Irritation.			
Indication of immediate medica	l attention and special treatment needed, if necessary			
Notes to Physician	Treat symptomatically.			
	5. FIRE-FIGHTING MEASURES			
Suitable Extinguishing Media None Unsuitable Extinguishing Media None Specific Hazards Arising from the Chemical May burn if exposed to high temperature. Use water spray to cool unopened containers. Explosion Data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None. Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.				
6. ACCIDENTAL RELEASE MEASURES				
Personal precautions, protective	equipment and emergency procedures			
Personal Precautions	Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.			
Environmental Precautions				
Environmental Precautions	Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.			
Methods and materials for contain	nment and cleaning up			

Methods for Containment

Dike to collect large liquid spills.

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Methods for Cleaning Up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Use personal protective equipment. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

Conditions for safe storage, including any incompatibilities

Storage

Keep container tightly closed.

Incompatible Products

Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name ACGIH TLV		OSHA PEL	NIOSH IDLH
Triethanolamine 102-71-6	TWA: 5 mg/m ³	-	-
Ethanolamine 141-43-5	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m ³ (vacated) TWA: 3 ppm (vacated) TWA: 8 mg/m ³ (vacated) STEL: 6 ppm (vacated) STEL: 15 mg/m ³	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m ³ STEL: 6 ppm STEL: 15 mg/m ³
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm 10% LEL TWA: 1000 ppm TWA: 1900 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Appropriate engineering controls

Engineering Measures

Showers Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Tightly fitting safety goggles.
Skin and Body Protection	Wear protective gloves/clothing.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced,
	NIOSH/MSHA approved respiratory protection should be worn.
	Positive-pressure supplied air respirators may be required for
	high airborne contaminant concentrations. Respiratory protection
	must be provided in accordance with current local regulations.

Hygiene Measures

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Odor	Liquid Mild	Odor	Appearance Threshold	No info	Blue rmation available
Property pH Melting Point/Range Boiling Point/Boiling Range Flash Point		Values 9.8 No data availa 100 °C / 212 ° > 93 °C / > 200 <1	F		Remarks/ - Method at 10% None known None known PMCC
Evaporation rate Flammability (solid, gas) Flammability Limits in Air upper flammability limit	I	 No data availa No data availa 			None known None known
lower flammability limit Vapor Pressure Vapor Density		No data availa No data availa >1			None known None known
Specific Gravity Water Solubility Solubility in other solvents	: 	1.05 Soluble in wate No data availa	ble		None known None known None known
Partition coefficient: n-octane Autoignition Temperature Decomposition Temperature Viscosity	1	No data availa No data availa No data availa No data availa	ble ble		None known None known None known None known
Flammable Properties	I	Not flammable			
Explosive Properties Oxidizing Properties	-	No data availa No data availa			
Other information VOC Content (%)	I	No data availa	ble		

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Carbon oxides, Hydrocarbons, Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	There is no data available for this product
Inhalation	There is no data available for this product
Eye Contact	Causes serious eye irritation.
Skin Contact	Causes skin irritation.
Ingestion	There is no data available for this product.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Triethanolamine	= 4190 mg/kg (Rat)	> 2000 mg/kg (Rabbit) > 16 mL/kg (Rat)	-
Diisopropanolamine	= 4765 mg/kg (Rat)	= 8000 mg/kg (Rabbit) = 16000 mg/kg (Rat)	-
Ethanolamine	= 1720 mg/kg (Rat)	= 1 mL/kg (Rabbit) = 1025 mg/kg (Rabbit)	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Irritation

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization	May cause sensitization by skin contact.
Mutagenic Effects	No information available.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen. Ethanol has been shown to be carcinogenic in long-term studies only when consumed and abused as an alcoholic beverage.

Chemical Name	ACGIH	IARC	NTP	OSHA	
Triethanolamine		Group 3			

ACGIH: (American Conference of Governmental Industrial Hygienists) None

IARC: (International Agency for Research on Cancer) Group 3

OSHA: (Occupational Safety & Health Administration)

X – Present

Reproductive Toxicity STOT - single exposure	No information available. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage.
STOT - repeated exposure	May cause disorder and damage to the: Liver.
Aspiration Hazard	No information available.

Numerical measures of toxicity - Product

Acute Toxicity6% of the mixture consists of ingredient(s) of unknown toxicity.The following values are calculated based on chapter 3.1 of the GHS document:LD50 Oral16469 mg/kg; Acute toxicity estimateLD50 Dermal26831 mg/kg; Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

6 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Triethanolamine 102-71-6	EC50 72 h: =216mg/L (Desmodesmus subspicatus) EC50 96 h: = 169mg/L (Desmodesmus subspicatus)	96 n: > 1000 mg/L static (Pimenhales prometas) I C50		EC50 24 h: = 1386 mg/L (Daphnia magna)
Diisopropanolamine 110-97-4	EC50 72 h: = 270 mg/L (Desmodesmus subspicatus)	LC50 96 h: 1000-2200 mg/L static (Brachydanio rerio) LC50 96 h: 1000-2200 mg/L static (Leuciscus idus)		EC50 48 h: = 277.7 mg/L (Daphnia magna Straus)
Ethanolamine 141-43-5	EC50 72 h: = 15 mg/L (Desmodesmus subspicatus)	static		EC50 48 h: = 65 mg/L (Daphnia magna)

Persistence and Degradability Bioaccumulation

No information available.

No information available.

Chemical Name	Log Pow
Triethanolamine	-2.53
Diisopropanolamine	-0.79
Ethanolamine	-1.91

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS			
Waste Disposal Methods	This material, as supplied, is not a hazardous waste according to Federal regulations (40CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.		
Contaminated Packaging	Do not re-use empty containers.		
	14. TRANSPORT INFORMATION		
DOT	Not regulated		
<u>TDG</u>	Not regulated.		
MEX	Not regulated		
	15. REGULATORY INFORMATION		
International Inventories TSCA	Complies		
	aces Control Act Section 8(b) Inventory bstances List/Non-Domestic Substances List		
U.S. Federal Regulations			

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

<u>Clean Water Act</u> This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	CAS-No	California Prop. 65
Diethanolamine	123-91-1	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Triethanolamine	Х	Х	Х		Х
Diisopropanolamine		Х	Х		
Ethanolamine	Х	Х	Х	Х	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazard 1	Flammability 1	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 1	Flammability 1	Physical Hazard 0	Personal Protection X

*Indicates a chronic health hazard.

Prepared By ITW Pro Brands 616 East Industrial St DeWitt, IA 52742

Revision Date16-July-2015Revision NoteNo information available.General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet